## 9-C.11.0. DRY SWALES: O&M CHECKLIST

Inspection Date Project Location		Site Plan/Permit Number
Date of Last Inspection	Inspector_	
Owner/Owner's Representative As-Built Plans available: Y / N		
Facility Type: Level 1		Level 2
Facility Location:		Hydraulic Configuration:
g Surface		☐ On-line facility
G <b>Underground</b>		☐ Off-line facility
Filtration Media:		Type of Pre-Treatment Facility:
□ No filtration (e.g., dry well,		☐ Sediment forebay (above ground)
permeable pavement, infiltration	ı	<ul><li>Sedimentation chamber</li></ul>
facility, etc.		□ Plunge pool
☐ Sand		<ul><li>Stone diaphragm</li></ul>
□ Bioretention Soil		☐ Grass filter strip
☐ Peat		☐ Grass channel
☐ Other:		☐ Other:

Ideally, Dry Swales should be inspected annually in the Spring, triggering such maintenance activities as sediment removal, spot revegetation, inlet stabilization, and repairs to check dams, underdrains and outlets.

Element of BMP	Potential Problem	Problem? Y/N		How to Fix Problem	Who Will Address Problem	Comments
	There is excessive trash and debris			Remove immediately	Owner or professional	
Contributing Drainage Area	There is evidence of erosion and / or bare or exposed soil			Stabilize immediately	Owner or professional	
	There are excessive landscape waste or yard clippings			Remove immediately and recycle or compost	Owner or professional	
Pre-Treatment and Flow Spreaders	There is adequate access to the pretreatment facility.			Establish adequate access	Professional and, perhaps, the locality	
	There is excessive trash, debris, or sediment.			Remove immediately	Owner or professional	
	There is evidence of erosion and / or exposed soil			Stabilize immediately	Owner or professional	
	There is evidence of clogging (standing water, noticeable odors, water stains, algae or floating aquatic vegetation)			Identify and eliminate the source of the problem. If necessary, remove and clean or replace the clogged material.	Professional	

Element of BMP	Potential Problem	Problem? Y/N	How to Fix Problem	Who Will Address Problem	Comments
Pre-Treatment and Flow	There is dead vegetation or exposed soil in the grass filter The pea gravel		Restabilize and revegetate as necessary	Owner or professional	
Spreaders (continued)	diaphragm is at the correct level		Correct the installation, as needed	Professional	
	The inlet provides a stable conveyance into the swale		Stabilize immediately, as needed, and clear blockages.	Owner or professional	
Inlet and Swale Sides and Base	There is excessive trash, debris, or sediment.		Remove immediately	Owner or professional	
	There is evidence of erosion at or around the inlet		Repair erosion damage and reseed	Owner or professional	
Check Dams	A check dam is not functioning properly.		Check upstream and downstream sides of check dams for evidence of undercutting, side cutting or erosion and repair immediately.	Professional	
	There is a large accumulation of sediment or trash/debris behind the check dam.		Remove sediment when the accumulation exceeds 25% of the original Tv. Remove trash/debris and clear blockages of weep holes.	Professional	
	Invasive species or weeds make up at least 10% of the facility's vegetation  Trees form an		Remove invasive species and excessive weeds immediately and replace vegetation as needed.	Owner or professional	
Vegetation	overhead canopy that may drop leaf litter, fruit and other vegetative materials that may cause clogging.		Prune or remove vegetation and organic litter as necessary.	Owner or professional	
	Grass height is not consistent with standards.		Dry Swales must be mowed to keep grass at a height of 4" to 9". Remove grass clippings after mowing.	Owner or professional	
	The grass cover is not dense enough or is dead or dying		Increase watering and reseed, if necessary, to maintain 95% turf cover, but avoid using chemical fertilizers unless absolutely necessary. Replace salt-killed vegetation with salt-tolerant species.	Professional	
Filter Media/ Soil	There is evidence that chemicals, fertilizers, and/or oil are present		Remove undesirable chemicals from media and facility immediately, and replace mulch or media as needed	Professional	

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Filter Media/	There is excessive trash, debris, or sediment.		Remove trash and debris immediately. Check plant health and, without damaging plants, manually remove the sediment, especially if the depth exceeds 20% of the facility's design depth.	Owner or professional	
Soil (continued)	There is evidence of erosion and / or exposed soil		Stabilize immediately	Owner or professional	
	There is evidence that chemicals, fertilizers, and/or oil are present		Remove undesirable chemicals from media immediately, and replace mulch or media as needed	Professional	
	The perforated pipe is not conveying water as designed		Determine if the pipe is clogged with debris or if woody roots have pierced the pipe. Immediately clean out or replace the pipe, as necessary.	Professional	
Underdrain	The underlying soil interface is clogged (there is evidence on the surface of soil crusting, standing water, the facility does not dewater between storms, or water ponds on the surface of basin for more than 48 hours after an event).		Measure the draw-down rate of the observation well for three days following a storm event in excess of 1/2 inches in depth. After three days, if there is standing water on top but not in the underdrain, this indicates a clogged soil layer. If standing water is both on the surface and in the underdrain, then the underdrain is probably clogged. This should be promptly investigated and remediated to restore proper filtration. Grading changes may be needed or underdrain repairs made.	Professional	
Outlet	Outlets are obstructed or erosion and soil exposure is evident below the outlet.		Remove obstructions and stabilize eroded or exposed areas.	Owner or Professional	
	There is excessive trash, debris, or sediment at the outlet		Remove immediately, and keep the contributing area free of trash and debris.	Owner or professional	
Overall	Access to the Infiltration facility or its components is adequate		Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that hardware can be opened and operated.	Professional and, perhaps, the locality	

Element of BMP	Potential Problem	Problem? Y/N		How to Fix Problem	Who Will Address Problem	Comments
Overall (continued)	Mosquito proliferation			Eliminate stangant pools and establish vegetation; treat for mosquitoes as needed. If sprays are considered, then a mosquito larvicide, such as Bacillus thurendensis or Altoside formulations can be applied only if absolutely necessary.	Owner or professional	
	Complaints from local residents			Correct real problems.	Owner or professional	
	Encroachment on the swale or easement by buildings or other structures			Inform involved property owners of BMPs status; clearly mark the boundaries of the receiving pervious area, as needed	Owner or professional (and perhaps the locality)	